

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		09780035
	Filing Date		2001-02-09
	First Named Inventor	Tariq Ghayur	
	Art Unit	1644	
	Examiner Name	Gambel, Phillip	
	Attorney Docket Number	BBC-084/US	

U.S.PATENTS						
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	1	5060283		1991-10-22	Shiraishi, et al.	
	2	5545806		1996-08-13	Lonberg, et al.	
	3	5545807		1996-08-13	Surani, et al.	
	4	5597669		1997-01-28	Hamada, et al.	
	5	5612205		1997-03-18	Kay, et al.	
	6	5625126		1997-04-29	Lonberg, et al.	
	7	5625825		1997-04-29	Rostoker, et al.	
	8	5627052		1997-05-06	Schrader, et al.	

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9	5633425		1997-05-27	Lonberg, et al.	
10	5643763		1997-07-01	Dunn, et al.	
11	5661016		1997-08-26	Lonberg, et al.	
12	5721367		1997-02-24	Kay, et al.	
13	5770429		1998-06-23	Lonberg, et al.	
14	5789215		1998-08-04	Berns, et al.	
15	5789650		1998-08-04	Lonberg, et al.	
16	5814318		1998-09-29	Lonberg, et al.	
17	5849500		1998-12-15	Breitlinger et al.	
18	5912324		1999-06-15	Okamura, et al.	
19	5916771		1999-06-29	Hori, et al.	

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20	5939598		1999-08-17	Kucherlapati, et al.	
21	5985615		1999-12-07	Jakobovits, et al.	
22	5994619		1999-11-30	Stice, et al.	
23	5998209		1999-12-07	Jakobovits, et al.	
24	6054487		2000-04-25	Sekut, et al.	
25	6091001		2000-07-18	Jakobovits et al.	
26	6114598		2000-09-05	Kucherlapati et al.	
27	6130364		2000-10-10	Jakobovits et al.	
28	6309636		2001-10-30	doCouto et al.	
29	7135458		2006-11-14	Ushio et al.	

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	1	EP 0712931			2001-02-14	Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenky		<input type="checkbox"/>
	2	EP 0850952			1998-07-01	Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenky		<input type="checkbox"/>
	3	EP 0864585			1998-09-16	Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenky		<input type="checkbox"/>
	4	EP 0962531			1999-12-08	Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenky		<input type="checkbox"/>
	5	WO 91/10741			1991-07-25	Cell Genesys, Inc.		<input type="checkbox"/>
	6	WO 91/17271			1991-11-14	Affymax Technologies, N. V.		<input type="checkbox"/>
	7	WO 92/01047			1992-01-23	Cambridge Antibody Technology Limited		<input type="checkbox"/>

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8	WO 92/02551			1992-02-20	B.R. Centre Limited		<input type="checkbox"/>
9	WO 92/09690			1992-06-11	Genetech, Inc.		<input type="checkbox"/>
10	WO 92/15679			1992-09-17	Protein Engineering Corporation		<input type="checkbox"/>
11	WO 92/18619			1992-10-29	The Scripts Research Institute		<input type="checkbox"/>
12	WO 92/20791			1992-11-26	Cambridge Antibody Technology Limited		<input type="checkbox"/>
13	WO 94/02602			1994-02-03	Cell Genesys, Inc.		<input type="checkbox"/>
14	WO 96/33735			1996-10-31	Cell Genesys, Inc.		<input type="checkbox"/>
15	WO 96/34096			1996-10-31	Cell Genesys, Inc.		<input type="checkbox"/>
16	WO 97/24441			1997-07-10	Incyte Pharmaceuticals, Inc.		<input type="checkbox"/>
17	WO 97/29131			1997-08-14	BASF Aktiengesellschaft		<input type="checkbox"/>
18	WO 97/44468			1997-11-27	Schering Corp.		<input type="checkbox"/>

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19	WO 98/16654			1998-04-23	Japan Tobacco, Inc.		<input type="checkbox"/>
20	WO 98/24893			1998-06-11	Abgenix, Inc.		<input type="checkbox"/>
21	WO 98/41232			1998-09-24	BASF		<input type="checkbox"/>
22	WO 98/50433			1998-11-12	Abgenix, Inc.		<input type="checkbox"/>
23	WO 99/09063			1999-02-25	Yeda Research and Development Center		<input type="checkbox"/>
24	WO 99/22760			1999-05-14	The Wistar Institute of Anatomy and Biology		<input type="checkbox"/>
25	WO 99/25044			1999-05-20	Cohen, Nathan		<input type="checkbox"/>
26	WO 99/37772			1999-07-29	Immunex Corporation		<input type="checkbox"/>
27	WO 99/37773			1999-07-29	Immunex Corporation		<input type="checkbox"/>
28	WO 99/45031			1999-09-10	Abgenix, Inc.		<input type="checkbox"/>
29	WO 99/53049			1999-10-21	Abgenix, Inc.		<input type="checkbox"/>

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30	WO 00/09560			2000-02-24	Abgenix, Inc.		<input type="checkbox"/>
31	WO 00/12555			2000-03-09	Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenky		<input type="checkbox"/>
32	WO 00/37504			2000-06-29	PFIZER, Inc.		<input type="checkbox"/>
33	WO 00/56772			2000-09-28	BASF Aktiengesellschaft		<input type="checkbox"/>
34	WO 00/75348			2000-12-14	Seattle Genetics, Inc.		<input type="checkbox"/>
35	WO 01/07480			2001-01-02	Yeda Research and Development Co., Ltd.		<input type="checkbox"/>
36	WO 01/58956			2001-08-16	BASF Aktiengesellschaft		<input type="checkbox"/>
37	WO 01/81423			2001-11-01	Dr. Fenning Biomed GMBH.		<input type="checkbox"/>
38	WO 01/83525			2001-11-08	AMGEN, Inc.		<input type="checkbox"/>
39	WO 02/60479			2002-08-08	Applied Research Systems ARS Holding N. V.		<input type="checkbox"/>
40	WO 02/72636			2002-09-19	Altus Biologics, Inc.		<input type="checkbox"/>

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	1	ADACHI O., et al., Targeted Disruption of the MyD88 Gene Results in Loss of IL-1- and IL-18-Mediated Function, Immunity, (1998), Vol. 9, pgs. 143-150	<input type="checkbox"/>
	2	AKITA KENJI, et al, Involvement of Caspase- and Caspase -3 in the Production and Processing of Mature Human Interleukin 18 in Monocytic THP.1 Cells, The Journal of Biological Chemistry, (1997) Vol. 272(42), pgs. 26595-26603	<input type="checkbox"/>
	3	ALBERTS, BRUCE et al., The Cell 4th Edition, Garland Science, pg. 161 figs 3-42	<input type="checkbox"/>
	4	BABCOCK, JOHN S. et al., A novel Strategy for generating monoclonal antibodies from single, isolated lymphocytes producing antibodies of defined specificities, Proc. Natl. Acad. Sci, (1996), Vol. 93, pgs. 7843-7848	<input type="checkbox"/>
	5	BALINT, ROBERT F., et al., Antibody engineering by parsimonious mutagenesis, Gene. (1993) Vol. 137, pgs. 109-118	<input type="checkbox"/>
	6	BARBAS, CARLOS F., III., et al., Assembly of combinatorial antibody libraries on phage surfaces: The gene site, Proc. Natl. Acad. Sci, (1991), Vol. 88, pgs 7978 - 7982	<input type="checkbox"/>
	7	BENDELE, ALISON et al., Animal Models of Arthritis: Relevance to Human Disease, Toxicology Pathology, (1999) Vol. 27(1), pgs. 134-142	<input type="checkbox"/>
	8	BIRD, ROBERT E. et al., Single-Chain Antigen-Binding Proteins, Science (1988), Vol. 242, pgs. 423-426	<input type="checkbox"/>

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9	CLACKSON, TIM et al., Making Antibody fragments using phage display libraries, Letters to Nature, (1991), Vol. 352, pgs. 624-628	<input type="checkbox"/>
10	DAVIES, JULIAN et al., Affinity improvement of single antibody VH domains: residues in all three hypervariable regions affect antigen binding, Immunotechnology 2 (1996), pgs. 169-179	<input type="checkbox"/>
11	Dinareello, C, Interleukin-18, Methods (1999), Vol. 19, pgs. 121-132	<input type="checkbox"/>
12	FASSBENDER, K., MD., et al., Interferon- γ -inducing factor (IL-18) and interferon- γ in inflammatory CNS diseases, Neurology, (1999) Vol. 53, pgs. 1104-1106	<input type="checkbox"/>
13	FUCHS, PATRICK, et al., Targeting Recombinant Antibodies to the Surface of Escherichia Coli: Fusion to a Peptidoglycan Associated Lipoprotein, Bio/Technology (1991) Vol. 9, pgs. 1370-1372	<input type="checkbox"/>
14	GARRAD, LISA J. et al., FAB Assembly and Enrichment in a Monovalent Phage Display System, Bio-Technology (1991) Vol., 9 pgs. 1373-1377	<input type="checkbox"/>
15	GAVILONDO, JORGE V., et al., Antibody Engineering at the Millenium, Bio Techniques (2000) Vol. 29, pgs. 128-145	<input type="checkbox"/>
16	GHAYUR, TARIQ et al., Caspase-1 processes IFN- γ -inducing factor and regulates LPS-induced IFN- γ productions, Nature (1997) Vol. 386, pgs. 619-623	<input type="checkbox"/>
17	GHEITIE, VICTOR et al., Increasing the serum persistence of an IgG fragment by random mutagenesis, Nature Biotechnology, (1997) Vol. 15, pgs. 637-640	<input type="checkbox"/>
18	GIEGE, RICHARD et al., Crystallization of Nucleic Acids and Proteins, A Practical Approach, 2nd Edition (1999), pgs. 1-16	<input type="checkbox"/>
19	GRAM, HERMANN et al., Invitro selection and affinity maturation of antibodies from a naive combinatorial immunoglobulin library, Biochemistry (1992) Vol. 89, pgs. 3576-3580	<input type="checkbox"/>

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20	GREEN, L.L. et al., Antigen-specific human monoclonal antibodies from mice engineered with human Ig heavy and light chain YACs, Nature Genetics (1994) Vol. 7, pgs. 13-21	<input type="checkbox"/>
21	GREEN, LARRY L. et al., Regulation of B Cell Development by Variable Gene Complexity in Mice Reconstituted with Human Immunoglobulin Yeast Artificial Chromosomes, J. Exp. Med. (1998), Vol. 188, pgs. 483-495	<input type="checkbox"/>
22	GRIFFITHS, ANDREW D. et al., Human anti-self antibodies with high specificity from phage display libraries, the EMBO Journal (1993), Vol. 12(2), pgs. 725-734	<input type="checkbox"/>
23	GU, YONG et al., Activation of Interferon- γ Inducing Factor mediated by Interleukin-1 β Converting Enzyme, Science (1997), Vol. 275, pgs. 206-209	<input type="checkbox"/>
24	HAWKINS, ROBERT E. et al., Selection of Phage Antibodies by Binding Affinity mimicking Affinity Maturation, J. Mol. Biol. (1992), Vol. 226, pgs. 889-896	<input type="checkbox"/>
25	HAY, BEVERLY N., et al., Bacteriophage cloning and Eschericia coli expression of human IgM Fab, Human Antibody Hybridomas, (1992), Vol. 3, pgs. 81-85	<input type="checkbox"/>
26	HEZAREH, MARJAN et al., Effector Function Activities of a Panel of Mutants of a Broadly Neutralizing Antibody against Human Immuno deficiency Virus Type 1, Journal of Virology (2001), Vol. 75(24), pgs. 12161-12168	<input type="checkbox"/>
27	HOLLIGER, PHILLIP et al., "Diabodies": Small bivalent and bispecific antibody fragments, Biophysics (1993), Vol. 90, pgs. 6444-6448	<input type="checkbox"/>
28	HOOGENBOOM, HENNIE R., et al., Multi-subunit proteins on the surface of filamentous phage: methodologies for displaying antibody (Fab) heavy and light chains, Nucleic Acids Research, (1991) Vol. 19(15), pgs. 4133-4137	<input type="checkbox"/>
29	HOOGENBOOM, HENNIE R. et al., Natural and Designer binding sites made by phage display technology, Immunology Today (2000) Vol. 21, pgs. 371-378	<input type="checkbox"/>
30	HOOGENBOOM, HENNIE R., Designing and optimizing library selection strategies for generating high-affinity antibodies, TIB Tech., (1997) Vol. 15, pgs 62-70	<input type="checkbox"/>

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31	HOSHINO, KATSUAKI et al, Cutting Edge: Generation of IL-18 Receptor-Deficient Mice: Evidence for IL-1 Receptor-Related Protein as an essential IL-18 Binding Receptor, Journal of Immunology, (1999) Vol. 162, pgs. 5041-5044	<input type="checkbox"/>
32	Huston, James S. et al, Protein engineering of antibody binding sites: Recovery of specific activity in an anti-digoxin single chain Fv analogue produced in Escherichia coli, Proc. Natl. Acad. Sci., (1988) Vol. 85, pgs. 5879-5883	<input type="checkbox"/>
33	Huse, William D. et al., Generation of a Large Combinatorial Library of Immunoglobulin Repertoire in Phage Lambda, Science, (1989) Vol. 246, pgs. 1275-1281	<input type="checkbox"/>
34	Johnsson, Bo et al., Immobilization of Proteins to a Carboxymethyl-dextran Modified Gold Surface for Biospecific Interaction Analysis in Surface Plasmon Resonance Sensors, Analytical Biochemistry, (1991) Vol. 198, pgs. 268-277	<input type="checkbox"/>
35	Johnsson, Bo et al, Comparison of Methods for Immobilization of Carboxymethyl Dextran Sensor Surfaces by Analysis of the Specific Activity of Monoclonal Antibodies, Journal of Molecular Recognition (1995), Vol. 8, pgs. 125-131	<input type="checkbox"/>
36	Jonsson, U et al., Introducing a biosensor based technology for real-time biospecific interaction analysis, Ann. Bio. Clin., (1993) Vol. 51, pgs. 19-26	<input type="checkbox"/>
37	Jonsson, U et al., Real-Time Biospecific Interaction Analysis Using Surface Plasmon Resonance and a Sensor Chip Technology, Biotechniques, (1991) Vol. 11, pgs. 620-627	<input type="checkbox"/>
38	JUNGHANS, R.P. et al., Anti-Tac-H, a Humanized Antibody to the Interleukin 2 Receptor with New Features for Immunotherapy in Malignant and Immune Disorders, Cancer Research (1990) Vol. 50, pgs. 1495-1502	<input type="checkbox"/>
39	KANAKARAJ, PALANISAMY et al., Defective Interleukin IL-18-mediated Natural Killer and T Helper Cell Type 1 Responses in IL-1 Receptor-associated Kinase (IRAK)-deficient Mice, J. Exp. Med., (1999) Vol. 189, pgs. 1129-1138	<input type="checkbox"/>
40	KAUFMANN, RANDAL J. et al., Amplification and Expression of Sequences Cotransfected with a Molecular Dihydrofolate Reductase Complementary DNA Gene, J. Mol. Bio, (1982) Vol. 159, pgs. 601-621	<input type="checkbox"/>
41	KEARNEY, JOHN F. et al., A New Mouse Myeloma Cell Line That Has Lost Immunoglobulins Expression but Permits the construction of Antibody-Secreting Hybrid Cell Lines, The Journal of Immunology (1979) Vol. 123, pgs. 1548-1550	<input type="checkbox"/>

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42	KETTLEBOROUGH, CATHERINE A. et al., Humanization of a mouse monoclonal antibody by CDR-grafting: the importance of framework residues on loop conformation, Protein Engineering, (1991) Vol. 4, pgs. 773-783	<input type="checkbox"/>
43	KIM, JIN-KYOO et al, Mapping the site on human IgG for binding of the MHC class I-related receptor, FcRn, Eur. J. of Immunology, (1999), Vol. 29, pgs. 2819-2825	<input type="checkbox"/>
44	KIPRIYANOV, SERGEY M. et al., Single-chain antibody streptavidin fusions: Tetrameric bifunctional ScFv-complexes with biotin binding activity and enhanced affinity to antigen, Human Antivody and Hybridomas (1995), Vol. 6(3), pgs. 93-101	<input type="checkbox"/>
45	KONISHI, KAORI et al., A simple and sensitive bioassay for the detection of human interleukin-18/interferon- γ -inducing factor using human myelomonocytic KG-1 cells, Journal of Immunological methods (1997), Vol. 209, pgs. 187-191	<input type="checkbox"/>
46	LEUNG, BERNARD P. et al., A Role for IL-18 in Neutrophil Activation, The Journal of Immunology (2001), Vol. 167, pgs. 2879-2886	<input type="checkbox"/>
47	LITTLE, M. et al., Of mice and men: hybridoma and recombinant antibodies, Immunology Today (2000), Vol. 21, pgs. 364-370	<input type="checkbox"/>
48	LONBERG, NILS et al., Antigen-specific human antibodies from mice comprising four distinct genetic modifications, Letters to Nature (1994), Vol. 368, pgs. 856-859	<input type="checkbox"/>
49	LUND, JOHN et al., Human Fc γ RI and Fc γ RII With Distinct but Overlapping Sites on human IgG, The Journal of Immunology (1991), Vol. 147(8), pgs. 2657-2662	<input type="checkbox"/>
50	MCCAFFERTY, JOHN et al., Phage Antibodies: filamentous phage displaying antibody variable domains, Letters to Nature (1990), Vol. 348, pgs. 552-554	<input type="checkbox"/>

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